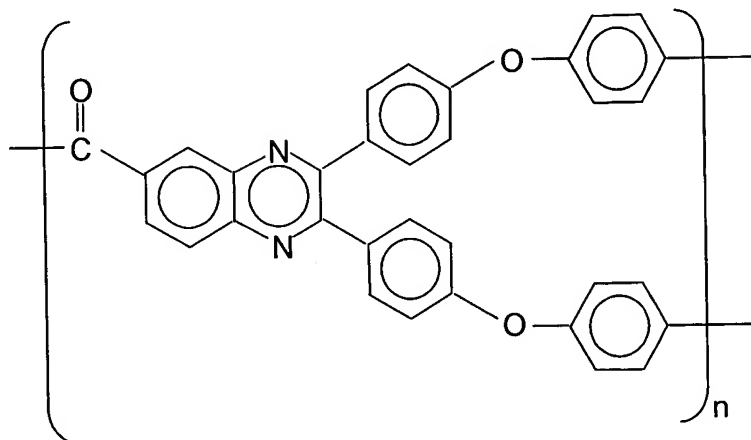


We claim:

1. A quinoxaline-containing hyperbranched ether-ketone polymer having repeating units of the formula:



2. A method for the polymerization of 2,3-bis(4-phenyloxyphenyl)-6-quinoxaline-carboxylic acid which comprises heating said 2,3-bis(4-phenoxyphenyl)-6-quinoxaline-carboxylic acid in a polymerization medium consisting of polyphosphoric acid with 83% P_2O_5 content with 25 weight percent additional P_2O_5 relative to said polyphosphoric acid to a temperature of about 130°C for about 24 hours and recovering the resulting polymer.